

Title (en)
SAMPLING DEVICE AND SYSTEMS

Title (de)
PROBENAHMEVORRICHTUNG UND -SYSTEME

Title (fr)
DISPOSITIF ET SYSTÈMES D'ÉCHANTILLONNAGE

Publication
EP 4178721 A4 20240717 (EN)

Application
EP 21838728 A 20210708

Priority
• US 202063049499 P 20200708
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Abstract (en)
[origin: US2022008922A1] Provided herein are devices, systems, and methods of using the same, that enable manual and automated sampling and preparation of biological samples for assessment. The samples may be obtained in any quantity, including nano/micro/millifluidic amounts. The samples comprise cells and/or other biological particles that are in suspension or grown on substrates such as microcarriers, and may be obtained from one or more containers, such as single well plates, vials, flasks or bioreactors. The instrument to which the sample is transferred may comprise any analytical instrument, such as an optical force or laser force cytology instrument.

IPC 8 full level
G01N 1/38 (2006.01); **B01L 3/00** (2006.01); **C07H 21/00** (2006.01); **C12M 1/00** (2006.01); **C12M 1/26** (2006.01); **G01N 35/00** (2006.01); **G01N 35/02** (2006.01); **G01N 35/10** (2006.01)

CPC (source: EP KR US)
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Citation (search report)
• [XII] US 6344336 B1 20020205 - PALMER DEREK ADEYEMI [GB], et al
• [XI] US 2016288119 A1 20161006 - ASOGAWA MINORU [JP], et al
• [XI] US 2006088929 A1 20060427 - NAKAJIMA AKIHISA [JP], et al
• [A] US 2016291023 A1 20161006 - FAN ZHONGHUI HUGH [US], et al
• [A] WO 2017161259 A1 20170921 - POIETAI LLC [US], et al
• See also references of WO 2022011114A1

Designated contracting state (EPC)
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DOCDB simple family (application)
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